

#2

OIPE

RAW SEQUENCE LISTING

DATE: 08/10/2001

PATENT APPLICATION: US/09/920,300

TIME: 07:50:18

Input Set : A:\547.app.txt

Output Set: N:\CRF3\08102001\I920300.raw

ENTERED

4 <110> APPLICANT: King, Gordon E.
 5 Meagher, Madeleine Joy
 6 Xu, Jiangchun
 7 Secrist, Heather
 11 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
 12 AND DIAGNOSIS OF COLON CANCER
 15 <130> FILE REFERENCE: 210121.547
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/09/920,300
 18 <141> CURRENT FILING DATE: 2001-07-31
 20 <160> NUMBER OF SEQ ID NOS: 1789
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 25 <211> LENGTH: 656
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Homo sapiens
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 30 <221> NAME/KEY: misc_feature
 31 <222> LOCATION: 544, 560, 627, 635 *ok*
 32 <223> OTHER INFORMATION: n = A,T,C or G
 34 <400> SEQUENCE: 1
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 36 gggtagggac acactttcgg gctctgcagg gaggccagaa gtattcttcc ctccatcaat 120
 37 agctttcttg ttggaaagga gggaatcctt tatttcagag tcaataacaa tcttaaggac 180
 38 atctggctca gaggtcgtgt ctgcaagttg tttttcattc tcagaaaagt catcgtcttc 240
 39 caagtgcagg aggaggggac tgatagagtc actctcccct tgaacatcag gcaactcttt 300
 40 caaaccagtt cccaagtgt caacctggaa agttgctctg cttccaggag gaaccttact 360
 41 aataaaagcc cgccgagcat cccctgggaa ctctgtatcc atagagctgg gtagttcagc 420
 42 caggccaaca gagtcatcat ttagttgttg attaagaaag gcaatttcac tgagcagtga 480
 43 agtcagtgtc tcatcagtat catctcctc ttcagtgtta ggtcagcagt tcaactggaat 540
 W--> 44 caaactgct tctctatan ctgatgttac tttcctcagt tccatctcta tgctttgaag 600
 W--> 45 cctttgaaaa ctttcatctt ttatttntga aaaangaaga atcctttgaa tttcac 656
 47 <210> SEQ ID NO: 2
 48 <211> LENGTH: 373
 49 <212> TYPE: DNA
 50 <213> ORGANISM: Homo sapiens
 52 <400> SEQUENCE: 2
 53 ctgtcccatg gggctccttat tgtaatctag accatcttgt tctagatggg cacttaagcc 60
 54 ctgtttcttc atagtctgtt atgctgtcat ttggacctgg atgcttccctg tttcttccag 120
 55 caatttttgt ttgtgttttt tgttgttgaa gagaggaaca tttaaggagt tagataaact 180
 56 ggtaattttc agatgtgtag aaaattgcat aggtggtgaa agccaatgcc ataggctctg 240
 57 aaattttact atttctaca tcaggaaatg tgtacaaaaa gtgctaaaat gccaagaata 300
 58 attttgagta tctaaagata gataaatctt ttcactctgag tggaaatggc attatgactt 360
 59 tatattctca tgg 373
 61 <210> SEQ ID NO: 3
 62 <211> LENGTH: 642
 63 <212> TYPE: DNA
 64 <213> ORGANISM: Homo sapiens

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67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: 541, 598, 621, 639
69 <223> OTHER INFORMATION: n = A,T,C or G
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73 ggtgaggcaa aggcattctg acttgttcca gccagccca ccgggtgaca tcaccgggca 120
74 gggaggggtg ctggtggtg ttcatacgga gtaagctgct ctgcctgtgt gagtggctcc 180
75 tgggccctaa acaggcacct ttaggccatg ggtcactcac cgtgagccat caatgtgctc 240
76 tggctcgaca tggtttctct ctgtcttcta gtctagacct agtttttttg ttctgttccc 300
77 cacgtatgga tatagtagag attgttgtct gtgaaatttc tctttttag attttgagtt 360
78 ttcccttgta gtgtaaagaa tgatcacttt ctgtaacaat aacaagacca ctttttaaga 420
79 tttatcctgt ttgttctttg ttgattgaaa cataataatt gttaaaattc tctacagcct 480
80 tcttttctct ccatagctaa tcttcttct aatagttttt gctttctgtt ttgctgttgt 540
W--> 81 ttttttgcaa agctttcccc tcatagcctg tacctgttat caatataaaa ataactctcc 600
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84 <210> SEQ ID NO: 4
85 <211> LENGTH: 575
86 <212> TYPE: DNA
87 <213> ORGANISM: Homo sapiens
89 <220> FEATURE:
90 <221> NAME/KEY: misc_feature
91 <222> LOCATION: 492 ✓
92 <223> OTHER INFORMATION: n = A,T,C or G
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96 tattacttga tgtcctaaag cttctttgag atttgcata aaatttccta tgatggtaga 120
97 acgcaaatgt ccaacatgaa attttttggc aacattaggt gaactgaatt caaccacaat 180
98 cttcttctg ggaagtccag agaaaagttc actttttaat ccatattttg agccatcttc 240
99 aattacttgt tgtagcactg tctttgttaa gagctctctg tttattttga aatttacagt 300
100 cctttgacca gtactgattt cactcaccac tgtatcacat cttagcttct ctgctagtct 360
101 cttggcttga acttgaatat ctggtcttga atggctcattg tctttttcca ataaagaatc 420
102 cacagaaagc tgaaaaatcag ctacttcttc tttttgggaa attggaactg cagatattga 480
W--> 103 tgtgatcaag tnttctggtg gaagattcaa cactctggaa agctggcaag caatagcgcg 540
104 gcgaaagccg cacgccatgt ccacctctac gggaa 575
106 <210> SEQ ID NO: 5
107 <211> LENGTH: 558
108 <212> TYPE: DNA
109 <213> ORGANISM: Homo sapiens
111 <400> SEQUENCE: 5
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113 aaagtttgcc tatctggggc gcctggtcca cgaggttggc tggaagtacc aggcagtgac 120
114 agccaccctg gaggagaaga ggaaagagaa agccaagatc cactaccgga agaagaaaca 180
115 gctcatgagg ctacggaaac aggccgagaa gaacgtggag aagaaaattg acaaatacac 240
116 agaggtcctc aagaccacag gactcctggt ctgagcccaa taaagactgt taattcctca 300
117 tgcgttgctt gcccttctc cattgttgcc ctggaatgta cgggaccag gggcagcagc 360
118 agtccagggt ccacaggcag ccctgggaca taggaagctt gggagcaagg aaaggtctt 420
119 agtcaactgc tcccgaggtt gcttgaaagc actcggagaa ttgtgcaggt gtcatttata 480
120 tatgaccaa taggaaagag caaccagtta ctatgagtga aaggagacca gaagactgat 540

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121 tgggagggcc ctatcttg 558
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124 <211> LENGTH: 451
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128 <220> FEATURE:
129 <221> NAME/KEY: misc_feature
130 <222> LOCATION: 24, 301, 306, 375, 430
131 <223> OTHER INFORMATION: n = A,T,C or G
133 <400> SEQUENCE: 6
W--> 134 cctggcaggg aatgcaattc tcanagaaga caaagacccg caaaagatgt atgccaccat 60
135 ctatgagctg aaagaagaca agagctacaa tgtcacctcc gtcctgttta ggaaaaagaa 120
136 gtgtgactac tggatcagga cttttgttcc aggttgccag cccggcgagt tcacgctggg 180
137 caacattaag agttaccctg gattaacgag ttacctcgtc cgagtgggtga gcaccaacta 240
138 caaccagcat gctatggtgt tottcaagaa agttttctcaa aacagggagt cttcaagatc 300
W--> 139 ccccctacg ggagaaccaa ggagctgact tcggaactaa aggagaactt catccgcttc 360
W--> 140 tccaaatata tggggctccc tgaaaaccac atcgtcttcc ctgtcccaat cgaccagtgt 420
W--> 141 atcgaccggg tgagtgcaca ggtgccggca g 451
143 <210> SEQ ID NO: 7
144 <211> LENGTH: 555
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapiens
148 <220> FEATURE:
149 <221> NAME/KEY: misc_feature
150 <222> LOCATION: 293, 469 EV
151 <223> OTHER INFORMATION: n = A,T,C or G
153 <400> SEQUENCE: 7
154 gcatatttaa tgcacacatt tgaatgttac acataaataa ttttaacgat ggagtccaag 60
155 ttctggattt tacattagat ctgcatatat aagacacttg tggtaaatt tcaagattgg 120
156 taaagccagt ttcaagctgc ttatattttg agtacagggt tcaactattac aaatgtatga 180
157 tgttaaacta acaaactcat gaccttcaaa gatgtcttcg tcccacgcac acacatttgt 240
W--> 158 aatttgtgtc catttgctat ttcccttctt ctataatctt caaattatat agntatgcat 300
159 tgagttccct atgcatctca cccatctcct ttatctcagc cttctcatac tttgccattc 360
160 tcttctttct ggaaataacc agcacaacaa ttccagcaac aactgctatg accacaacca 420
W--> 161 caataacagg caataacacc agctttttaga ccctgcattg agaattcang tgctttttca 480
162 tcaacataat aaattaaagt ttgaccagga tccagatcca gttgttcccc atttactgtc 540
163 aggtccattt totta 555
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166 <211> LENGTH: 277
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapiens
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: 51, 76, 96, 118, 124, 163, 172 OK
173 <223> OTHER INFORMATION: n = A,T,C or G
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W--> 177 cagcacctca gcctgttgga gcaggctgac cacatctct ttctggaagg aggcgctntc 120
W--> 178 cggnaagggg gaaccacca gcagctcatg gaaaaaagg ggngctactg gnccatggtg 180

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179 caggctcctg cagatgctcc aaaatgaaag ccttctcaga cctgcgcact ccattctcct 240
180 cccttttctt ctctctgtgg tggagaacca cagagta 277
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183 <211> LENGTH: 474
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <220> FEATURE:
188 <221> NAME/KEY: misc_feature
189 <222> LOCATION: 431, 446, 464 OK
190 <223> OTHER INFORMATION: n = A,T,C or G
192 <400> SEQUENCE: 9
193 cctgcatgga ttccatgttc atgagtttgg agataataca gcaggctgta ccagtgcagg 60
194 tcctcacttt aatcctctat ccagaaaaca cggtagggcca aaggatgaag agaggcatgt 120
195 tggagacttg ggcaatgtga ctgctgacaa agatgggtgt gccgatgtgt ctattgaaga 180
196 ttctgtgatc tcaactctcag gagaccattg catcattggc cgcacactgg tgggccatga 240
197 aaaagcagat gacttgggca aagggtgaaa tgaagaaagt acaaagacag gaaacgctgg 300
198 aagtcgtttg gcttgtgggt taattgggat ccgcccaata aacattccct tggatgtagt 360
199 ctgaggcccc ttaactcatt tgttatcctg ctactgttag aaatgtatcc tgataaacat 420
W--> 200 taaacacttg naatcttaaa agtggnaattg tgtgactttt tcanaagttg cttt 474
202 <210> SEQ ID NO: 10
203 <211> LENGTH: 513
204 <212> TYPE: DNA
205 <213> ORGANISM: Homo sapiens
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: 499 OK
210 <223> OTHER INFORMATION: n = A,T,C or G
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214 tggcaatgca acagtctcat tttcccatga cgcattggca caccggattc agtggcattg 120
215 aatccagctc tccagaggtg aaaggctatt gggcaggttt ggatgcatct gctcagacta 180
216 cttctcatga actcaccatt ccaaacgatt tgattggctg cataatcggg cgtcaaggcg 240
217 ccaaaatcaa tgagatccgt cagatgtctg gggcgcagat caaaattgct aaccagtggtg 300
218 aaggatctac tgataggcag gttaccatca ctggatctgc tgccagcatt agcctggctc 360
219 aatatctaata caatgtcagg ctttctctcg agacgggtgg catggggagc agctagaaca 420
220 atgcagattc atccataatg ctttctgtgt gttcaccacc acccatggat ccattctgtgt 480
W--> 221 aagtttctga acagtcagnc gattccaggt ttt 513
223 <210> SEQ ID NO: 11
224 <211> LENGTH: 606
225 <212> TYPE: DNA
226 <213> ORGANISM: Homo sapiens
228 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
230 <222> LOCATION: 365, 433, 507, 549, 591 OK
231 <223> OTHER INFORMATION: n = A,T,C or G
233 <400> SEQUENCE: 11
234 ctgtctccca cccttgctgt gttgagtctg cgagcctggg atatgctaac tcgggggtga 60
235 tacaacctgg aagaagaatg tgaggctctc ctggaaagat gcaaaaacca tctcagatcc 120
236 aagggggccaa gatcacaagg tctgtgtgct acctgagggg tctgaagctt tgagggcagg 180

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237 ggctggggag tcacaatcct gtgaggcagg gagagggaag agtcacaaac ccaactcagc 240
238 gctattcttt agccctaggc gctttcactc ctcagtgcc tagaagtcac cagtaggtgt 300
239 caactgggca gacaaggac aggaagacag ggatggccca gggcttttta cccgttttgt 360
W--> 240 tttangcccg tttctccatt aagggatgca gaggcagggg tggagtgagt gaatgaatga 420
W--> 241 gtcacatctc caaaacagca ggaaggaca gcctctgctg gcaatgacag ttccccagat 480
W--> 242 gagatccctg gggctctgaa agggaanggc aagattcccc ccccaaatg ccccggtt 540
W--> 243 agggggcana tctgaaggga attcacaag gggcagccac agggagtgtc htaccttcgg 600
244 gccggc 606
246 <210> SEQ ID NO: 12
247 <211> LENGTH: 549
248 <212> TYPE: DNA
249 <213> ORGANISM: Homo sapiens
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: 34
254 <223> OTHER INFORMATION: n = A,T,C or G
256 <400> SEQUENCE: 12
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258 ccaaggaggt gcaatttttc atcttccaat ggcggcctca accttgaggc gaatccactg 120
259 gcgaaagatg cctttctagg aagcagagct ccctgactgg gctaagatag ttcagattga 180
260 tcttaggtca atggtaagac ctatgtagtt catgaagtct tggcttttcg gcgctgggtc 240
261 gccccaaagca gaatggagac ggatagagtg gtggctccca gaatcccgaa gaacataagc 300
262 agtgagaacg agccctggcg catacacttg tatccatgga aaccatcagc acaaacacac 360
263 tgcaaaagac ctggaccatc aggtacacaa gatccattct caggacacat ttctgggtcc 420
264 ccagtgttat tgcaaagggt cttttgccct tgacagattt ggttgtctat ataagagggt 480
265 atagtattcc agcattaatt cctccaggac agttgacatg ttgtggcagt atcagagtct 540
266 ggagctgag 549
268 <210> SEQ ID NO: 13
269 <211> LENGTH: 723
270 <212> TYPE: DNA
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273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: 594, 603, 620, 665, 708. OK
276 <223> OTHER INFORMATION: n = A,T,C or G
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281 atttgtttaa ggttaattat ggtagcaaatt tttgggccta aacattattt ttctgtatcc 180
282 cgctgtaatt cccaaaactc tcattattct ctaactatta cacatgggca tattctgatg 240
283 tttctcatcc tttgccagaa gactacctta catccatcgt aattgttctc taggaaaaga 300
284 gaactttttt caaaattcaa aatacttctt aaggatggca cagtaccata taactggagt 360
285 aataaaacat gagcttacat tcttacaata actaaaccac ttaaaatgat caaggcacta 420
286 atgttttggt ctgaaaagct gtgtacttta tagacatttt cagacatttt tggaaatttc 480
287 cattaaggtt ggaaaatcta tttttttcct cttttgcagt gtcttagttt gaatgaaaca 540
W--> 288 cttggaagtt ctagaaattc tagaaagagc cttaatgtat ttgatgtatt ctgngataaa 600
W--> 289 gangtactaa tagtatccan cacagatttg cttttctttg ctagcacaat gtggtgttgc 660
W--> 290 tgca/aaatat tctttttata ttctgtggaa aaaataaagg aaattca/aa tggttacctg 720
291 ccc 723

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VERIFICATION SUMMARY

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Input Set : A:\547.app.txt

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L:17 M:270 C: Current Application Number differs, Wrong Format

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
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L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
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L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
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L:569 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35

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L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:747 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36